IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

)	GROUP ART UNIT: N/A								
)	EXAMINER: N/A								
)	DOCKET REF.: 02CR109/KE								
)	SUBMITTED: July 31, 2003								
FOR: "METHOD AND SYSTEM FOR FAULT DETECTION AND EXCLUSION FOR MULTI-SENSOR NAVIGATION SYSTEMS"									
INFORMATION DISCLOSURE STATEMENT									
.56, the	references listed below and on the								
attached form PTO/SB/08B are being brought to the attention of the Examiner for									
aminatio	on of the above-identified patent								
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I hereby certify that this paper or fee is being deposited with the States Postal Service "Express Mail Post Office to Addressee" under 37 C.F.R. §1.10 on the date indicated above and is addre									
the Commissioner of Patents, Mail Stop Patent Application, Alexandria, VA 22313-1450.									
Sheila K. Mathews									
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Other Documents

- Brenner, M., "Integrated GPS/Inertial Fault Detection Availability", ION
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- Vanderwerf, K., "FDE Using Multiple Integrated GPS/Inertial Kalman
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- 3. Diesel, J., Luu, S., "GPS/IRS AIME: Calculation of Thresholds and Protection Radius Using Chi-Square Methods", ION GPS-95, Palm Springs, CA, Sept. 12-15, 1995, pp. 1959-1964.
- 4. Brumback, B. D., Srinath, M. D., "A Chi-Square Test for Fault Detection in Kalman Filters", *IEEE Transactions on Automatic Control*, Vol. AC-32, No. 6, June 1987, pp. 552-554.
- 5. Young, R. S. Y., McGraw, G. A., Driscoll, B. T., "Investigation and Comparison of Horizontal Protection Level and Horizontal Uncertainty Level in FDE Algorithms", ION GPS-96, Kansas City, MO, Sept. 17-20, 1996, pp. 1607-1614.
- 6. Brown, R. G., Chin, G. Y., "GPS RAIM Calculation of Thresholds and Protection Radius Using Chi-Square Methods—A Geometric Approach", *Red Book Series, Vol. V, of the Institute of Navigation on Global Positioning System*, The Institute of Navigation, Alexandria, VA, 1998, pp. 155-178.

- 7. Parkinson, B. W., Axelrad, P., "Autonomous GPS Integrity Monitoring Using the Pseudorange Residual", *NAVIGATION, Journal of the Institute of Navigation*, Vol. 35, No. 2, Summer 1988, pp. 255-274.
- 8. Young, R. S. Y., "Oceanic/Remote FDE Algorithm Design", internal memo, Rockwell Collins Inc., August 16, 1996.
- 9. Lee, Y., "New Techniques Relating Fault Detection and Exclusion Performance to GPS Primary Means Integrity Requirements", ION GPS-1995, Palm Springs, CA, Sept. 12-15, 1995, pp. 1929-1939.
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- 11. Van Diggelen, F., Brown, A., "Mathematical Aspects of GPS RAIM", Proceedings of 1994 IEEE Position Location and Navigation Symposium, Atlanta, March, 1994, pp. 733-738.
- 12. Enge, P. K., et al., "Combining Pseudoranges from GPS and Loran-C for Air Navigation", *NAVIGATION, Journal of the Institute of Navigation*, Vol. 37, No. 1, Spring 1990, pp. 281-298.
- 13. Horn, R. A., Johnson, C. R., *Matrix Analysis*, Cambridge University Press, 1985, page 421.
- 14. "Minimum Operation Performance Standard for Global Positioning System/Wide Area Augmentation System Airborne Equipment", Appendix R, RTCA/DO-229C.

15. Beyer, W. H., "Handbook of Tables for Probability and Statistics", The

Chemical Rubber Company, Cleveland, Ohio, 1966, pp. 146-148.

This disclosure statement should not be construed as a representation that a

search has been completed or that no other material information as defined in 37

C.F.R. §1.56(a) exists.

It is believed that this disclosure complies with the requirements of 37 C.F.R. §§

1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures §609. If for

some reason the Examiner considers otherwise, it is respectfully requested that the

undersigned be called so that any deficiencies can be remedied.

Some of the documents may have markings thereon. No significance is meant

by the attached markings.

These documents are not necessarily analogous art.

It is respectfully requested that the Examiner indicate consideration of the cited

references by returning a copy of the attached form PTO/SB/08B with initials or other

appropriate marks.

Respectfully submitted,

Kyle ⊭ppele

Attorney of Record

Reg. No. 34,155

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